

Fig. 1

A.

met	leu	ser	leu	leu	leu	leu	ala	leu	pro	val	leu	ala	ser	arg	-16
ATG	CTG	AGC	CTG	CTG	CTG	CTG	GCG	CTG	CCC	GTC	CTG	GCG	AGC	CGC	45
ala	tyr	ala	ala	pro	ala	pro	gly	gln	ala	leu	gln	gln	thr	gly	-1
GCC	TAC	GCG	GCC	CCT	GCC	CCA	GGC	CAG	GCC	CTG	CAG	CAA	ACG	GGC	90
↓	ile	val	gly	gly	gln	glu	ala	pro	arg	ser	lys	trp	pro	trp	gln
ATT	GTT	GGG	GGG	CAG	GAG	GCC	CCC	AGG	AGC	AAG	TGG	CCC	TGG	CAG	135
val	ser	leu	arg	val	arg	gly	pro	tyr	trp	met	his	phe	cys	gly	30
gtg	agc	ctg	aga	gtc	cgc	ggc	cca	tac	tgg	atg	cac	ttc	tgc	ggg	180
gly	ser	leu	ile	his	pro	gln	trp	val	leu	thr	ala	ala	<u>HIS</u>	cys	45
ggc	tcc	ctc	atc	cac	ccc	cag	tgg	gtg	cta	acc	gcg	gcg	cac	tgc	225
val	glu	pro	asp	ile	lys	asp	leu	ala	ala	leu	arg	val	gln	leu	60
gtg	gaa	ccg	gac	atc	aag	gat	ctg	gcc	gcc	ctc	agg	gtg	caa	ctg	270
arg	glu	gln	his	leu	tyr	tyr	gln	asp	gln	leu	leu	pro	val	ser	75
cgg	gag	cag	cac	ctc	tac	tac	cag	gac	cag	ctg	ctg	ccg	gtc	agc	315
arg	ile	ile	val	his	pro	gln	phe	tyr	ile	ile	gln	thr	gly	ala	90
agg	atc	atc	gtg	cac	cca	cag	ttc	tac	atc	atc	cag	acc	ggg	gcg	360
<u>ASP</u>	ile	ala	leu	leu	glu	leu	glu	glu	pro	val	asn	ile	ser	ser	105
gac	atc	gcc	ctg	ctg	gag	ctg	gag	gag	ccc	gtg	aac	atc	tcc	agc	405
his	ile	his	thr	val	thr	leu	pro	pro	ala	ser	glu	thr	phe	pro	120
cac	atc	cac	acg	gtc	acg	ctg	ccc	cct	gcc	tcg	gag	acc	ttc	ccc	450
pro	gly	met	pro	cys	trp	val	thr	gly	trp	gly	asp	val	asp	asn	135
ccg	ggg	atg	ccg	tgc	tgg	gtc	act	ggc	tgg	ggc	gac	gtg	gac	aat	495
asn	val	his	leu	pro	pro	pro	tyr	pro	leu	lys	glu	val	glu	val	150
aat	gtg	cac	ctg	ccg	ccg	cca	tac	ccg	ctg	aag	gag	gtg	gaa	gtc	540
pro	val	val	glu	asn	his	leu	cys	asn	ala	glu	tyr	his	thr	gly	165
ccc	gta	gtg	gaa	aac	cac	ctt	tgc	aac	gcg	gaa	tat	cac	acc	ggc	585
leu	his	thr	gly	his	ser	phe	gln	ile	val	arg	asp	asp	met	leu	180
ctc	cat	acg	ggc	cac	agc	ttt	caa	atc	gtc	cgc	gat	gac	atg	ctg	630
cys	ala	gly	ser	glu	asn	his	asp	ser	cys	gln	gly	asp	<u>SER</u>	gly	195
tgt	gcg	ggg	agc	gaa	aat	cac	gac	tcc	tgc	cag	ggt	gac	tct	gga	675
gly	pro	leu	val	cys	lys	val	asn	gly	thr	***					205
<u>ggg</u>	ccc	ctg	gtc	tgc	aag	gtg	aat	ggc	acc	taa	ctg	cag	gcg	ggc	720
gtg	gtc	agc	tgg	gag	gag	agc	tgt	gcc	cag	ccc	aac	cgg	cct	ggc	765
atc	tac	acc	cgt	gtc	acc	tac	tac	ttg	gaC	TGG	ATC	CAC	CAC	TAT	810

Fig. 2A

B.

gly gly gln glu ala pro arg ser lys trp pro trp gln val ser
leu arg val arg gly pro tyr trp met his phe cys gly gly ser
leu ile his pro gln trp val leu thr ala ala his cys val glu
pro↓val gln leu arg glu gln his leu tyr tyr gln asp gln leu
leu pro val ser arg ile ile val his pro gln phe tyr ile ile
gln thr gly ala asp ile ala leu leu glu leu glu glu pro val
asn ile ser ser his ile his thr val thr leu pro pro ala ser
glu thr phe pro pro gly met pro cys trp val thr gly trp gly
asp val asp asn asn val his leu pro pro pro tyr pro leu lys
glu val glu val pro val val glu asn his leu cys asn ala glu
tyr his thr gly leu his thr gly his ser phe gln ile val arg
asp asp met leu cys ala gly ser glu asn his asp ser cys gln
gly asp ser gly gly pro leu val cys lys val asn gly thr

Fig. 2B

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α I	MLSLLLLALPVLASRAYAAPAPVQALQQAGIVGGQEA	PRSKWPQVSLRV	20
α II	-----P-----		
β I	--N-----G--RV--		
β II	--N-----G--RV--		
β III	--N-----G--RV--		
δ I	-----P-V--G--T--		
δ II	-----P-V--G--T--		

		#		
α I	RDRYWMHFCG	GLIHPQWVLTAAHCLGPDVKDLATLRVQLREQHLYYQDQ		70
α II	-----	-----		
β I	HGP-----	V-----A-----		
β II	HGP-----	V-----A-----		
β III	-----	V-----A-----		
δ I	-GP-----	ME-I-----A-----		
δ II	-GP-----	VE-I-----A-----		
	A	B		

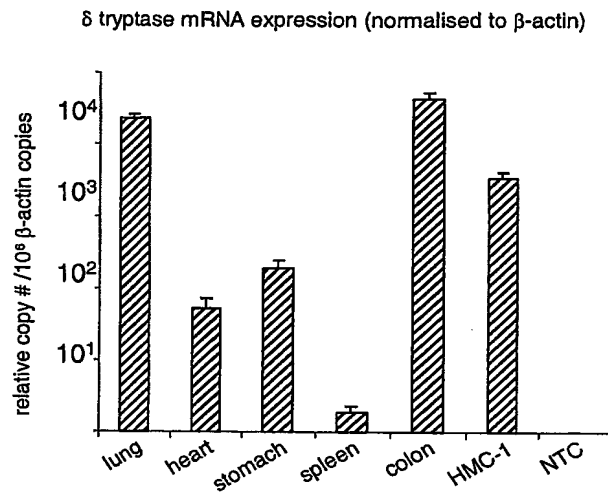
		#		
α I	LLPVSRIIVHPQFYLIQTGADIALLELEEPVNISSRVHTVMLPPASETFP			120
α II	-----	-----		
β I	-----	TA-I-----V-H-----T-----		
β II	-----	TA-I-----KV-H-----T-----		
β III	-----	TA-I-----		
δ I	-----	-----	HI-T-----	
δ II	-----	-----	HI-T-----	
	C	D		

α I	PGMPCWVTGWGDVDNDEPLPPPFPLKQVKVPIMENHICDAKYHLGAYTGD			170
α II	-----			
β I	-----	R-----		
β II	-----	R-----		
β III	-----	R-----		
δ I	-----NVH-----Y-----E-E-VV-----L-N-E-----T-LH-H			
δ II	-----NVH-----Y-----E-E-VV-----L-N-E-----T-LH-H			
			3	

		#		
α I	DVRIIRDDMLCAGNSQRD	SCCKGDSG	GPLVCKVNGTWLQAGVVS	WDEGCAQ
α II	-----	-----	-----	-----
β I	-----	TR-----Q-----		
β II	-----	TR-----Q-----		
β III	-----	TR-----Q-----		
δ I	SFQ-V-----SENH-----X			
δ II	SFQ-V-----SENH-----X			
	1	2		

α I	PNRPGIYTRVTYYLDWIHHYVPKKP			245
α II	-----			
β I	-----			
β II	-----			
β III	-----			

Fig. 3

**Fig. 4**

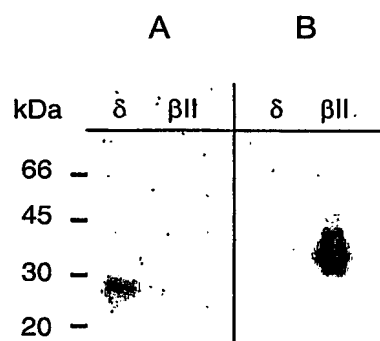


Fig. 5

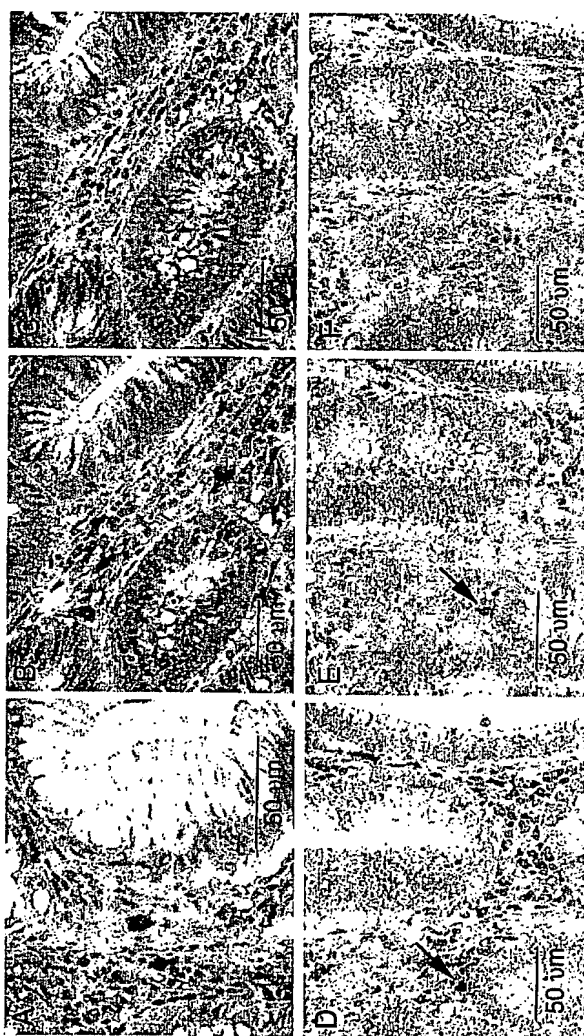


Fig. 6

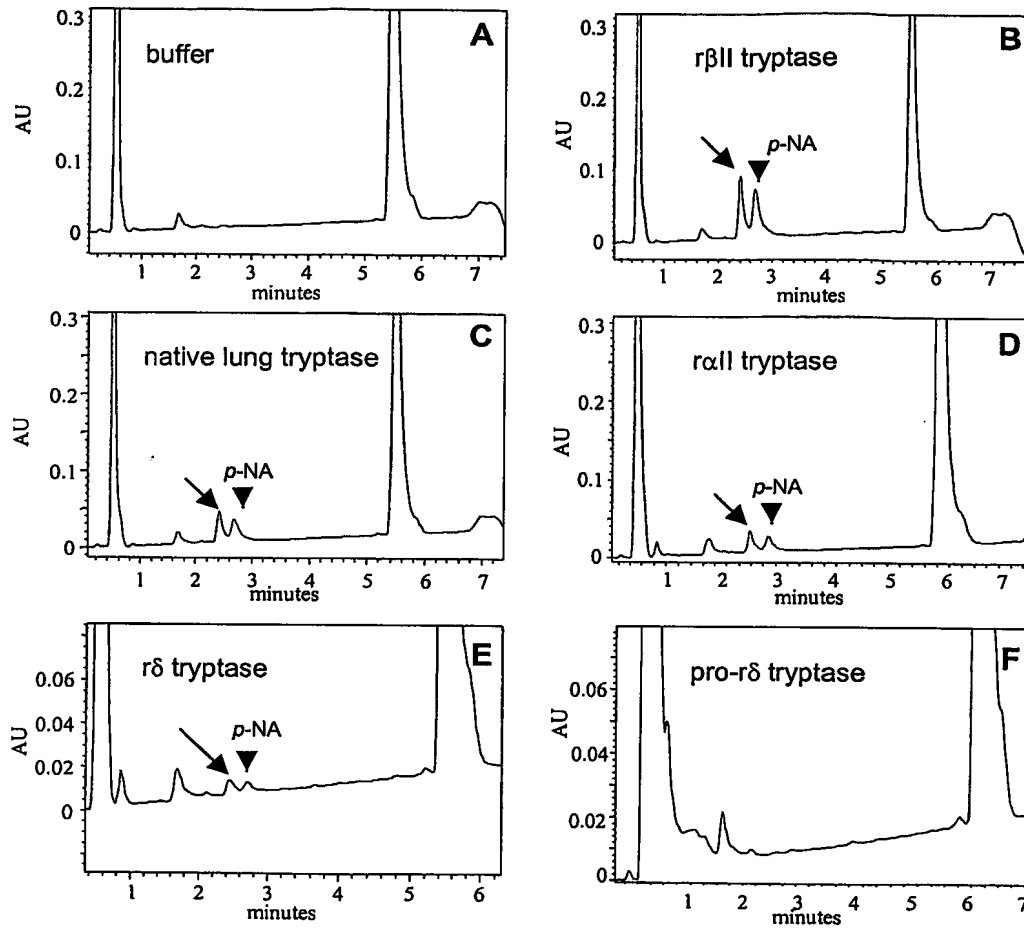


Fig. 7